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DATE MAILED: 06/05/2002

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/276,021	03/25/1999	KHALID YOUSSEFF	024/1	1550
7	7590 06/05/2002			
KAPLAN & GILMAN			EXAMINER	
900 ROUTE 9 NORTH WOODBRIDGE,, NJ 07095		HAROLD, JEFFEREY F		
			ART UNIT	PAPER NUMBER
			2644	

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)				
Coffice Action Summary	09/276,021	YOUSSEFF, KHALID				
omec Action Summary	Examiner	Art Unit				
The MAILING DATE of this communication ann	Jefferey F. Harold	2644				
- The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). Status	6(a). In no event, however, may a reply be tim within the statutory minimum of thirty (30) days till apply and will expire SIX (6) MONTHS from cause the application to become ABANDONEI	nely filed s will be considered timely. the mailing date of this communication. O (35 U.S.C. § 133).				
1) Responsive to communication(s) filed on						
	—· s action is non-final.					
3) Since this application is in condition for allowa		osecution as to the morits is				
closed in accordance with the practice under E Disposition of Claims	Ex parte Quayle, 1935 C.D. 11, 4	53 O.G. 213.				
4) Claim(s) 1-4 is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-7</u> is/are rejected.						
7)⊠ Claim(s) <u>4 and 6</u> is/are objected to.	•					
8) Claim(s) are subject to restriction and/or	election requirement.					
Application Papers						
9) The specification is objected to by the Examiner.						
10) The drawing(s) filed on is/are: a) accept						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). 11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.						
If approved, corrected drawings are required in repl		ved by the Examiner.				
12) The oath or declaration is objected to by the Examiner.						
Priority under 35 U.S.C. §§ 119 and 120	•					
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) ☐ All b) ☐ Some * c) ☐ None of:	priority under 00 0.0.0. 3 1 10(a)	(4) 5. (1).				
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.						
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).						
 a) ☐ The translation of the foreign language provisional application has been received. 15)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121. 						
Attachment(s)						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 4) Interview Summary (PTO-413) Paper No(s) 5) Notice of Informal Patent Application (PTO-152) 6) Other:						

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DETAILED ACTION

Drawings

1. Applicant is required to submit a proposed drawing correction in reply to this

Office action. However, formal correction of the noted defect may be deferred until after
the examiner has considered the proposed drawing correction. Failure to timely submit
the proposed drawing correction will result in the abandonment of the application.

INFORMATION ON HOW TO EFFECT DRAWING CHANGES

1. Correction of Informalities -- 37 CFR 1.85

New corrected drawings must be filed with the changes incorporated therein. Identifying indicia, if provided, should include the title of the invention, inventor's name, and application number, or docket number (if any) if an application number has not been assigned to the application. If this information is provided, it must be placed on the front of each sheet and centered within the top margin. If corrected drawings are required in a Notice of Allowability (PTOL-37), the new drawings MUST be filed within the THREE MONTH shortened statutory period set for reply in the "Notice of Allowability." Extensions of time may NOT be obtained under the provisions of 37 CFR 1.136 for filing the corrected drawings after the mailing of a Notice of Allowability. The drawings should be filed as a separate paper with a transmittal letter addressed to the Official Draftsperson.

2. Corrections other than Informalities Noted by Draftsperson on form PTO-948.

All changes to the drawings, other than informalities noted by the Draftsperson, **MUST** be made in the same manner as above except that, normally, a highlighted (preferably red ink) sketch of the changes to be incorporated into the new drawings **MUST** be approved by the examiner before the application will be allowed. No changes will be permitted to be made, other than correction of informalities, unless the examiner has approved the proposed changes.

Timing of Corrections

Applicant is required to submit acceptable corrected drawings within the time period set in the Office action. See 37 CFR 1.185(a). Failure to take corrective action within the set (or extended) period will result in **ABANDONMENT** of the application.

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This application has been filed with informal drawings which are acceptable for examination purposes only. Formal drawings will be required when the application is allowed.

Claim Rejections - 35 USC § 102

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claims 1-3, 5 and 7 are rejected under 35 U.S.C. 102(b) as being anticipated by Boyer (United States Patent 4,554,417).

Regarding **claims 1** and **5**, Boyer discloses a tandem adaptive echo canceller arrangement. In addition, Boyer discloses an arrangement (figure 1) for canceling echo canceling echoes supplied via the received signal (X(k)) and supplied to the received input (X), which reads on claimed "apparatus", as disclosed at column 2, lines 40-46 and exhibited in figure 1, comprising:

control unit (16), which reads on claimed "means for implementing", at the start of a communications session over input line (X) which reads on claimed "communication line", echo cancellers 10 and 12, which reads on claimed "plurality of echo cancellers", for canceling echo on input line (X), the echo cancellers each operate to cancel echoes that arrive during non overlapping 16 millisecond intervals, as disclosed at column 2, line 64 through column 3, line 12;

each of the adaptive filters (10 and 12) include an adaptive transversal filter, which reads on claimed "means for training", each canceller produces a signal estimate, which reads on claimed "cancellation signal", that cancels arriving during the 16

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millisecond window associated with each of the echo cancellers, as disclosed at column 2, lines 46-63;

switch (16), which reads on claimed "means for eliminating", after a predetermined training period, the echo canceller (10 or 12), that produces a cancellation signal below a predetermined threshold, as disclosed at column 3, line 38 through column 4, line 21.

Regarding **claims 2-3 and 7**, Boyer discloses everything claimed as applied above (see claim 1), in addition claims 2-3 are interpreted and thus rejected for the reasons set forth above in the rejection of claim 1.

Allowable Subject Matter

3. Claims 4 and 6 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Regarding **claim 4**, the prior art of record failed to specifically disclose or fairly suggest allowing a user to alter the predetermined threshold via a graphical user interface.

Regarding **claim 6**, the prior art of record failed to specifically disclose or fairly suggest allowing a user to alter the predetermined threshold

Citation of Pertinent Art

4. Duttweiler, (United States Patent 5,566,167), sub-band echo canceller.

Muraoka, (United States Patent 6,185,301), echo canceller having plurality of adaptive filter circuits.

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Shaw, (United States Patent 5,610,909), multistage echo canceller including time varying compensation.

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Margo et al. "Multiple Short-Length Adaptive Filters For Time-Varying Echo Cancellation", 1993 IEEE International Conference on Acoustics, Speech, and Signal Processing, April 27-30, 1993, pages I-161 - I-164

Conclusion

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jefferey F. Harold whose telephone number is (703) 306-5836. The examiner can normally be reached on Monday-Friday 7:30am-4pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Forester W. Isen can be reached on (703) 305-4386. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 872-9314 for regular communications and (703) 872-9314 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-3900.

JFH

May 30, 2002

FORESTER W. ISEN
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2700